

Monitor and Control of Greenhouse Environment using IoT

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Abstract:

This project “**MONITOR AND CONTROL OF GREEN HOUSE ENVIRONMENT USING IOT**” monitors various parameter like temperature, humidity, water level, soil moisture and light of closed green-house farm from android or ios based mobile using IOT technology through wi-fi. These data are sent to the cloud server called BLYNK cloud and from the BLYNK cloud the farmer can monitor the green house environment in his mobile from anywhere in the world.

Also the farmer can control the fan to cool the greenhouse from his mobile if the temperature exceeds certain level. He can switch on the motor pump to pump the water to irrigate the plants and trees in the farm if the soil moisture level is dry. When the soil moisture reaches a required level he can switch off the pump. Similarly, the bulb can be switched on or off depends on the present light level condition.

The farmer can monitor as well as control the green house environment from his house using his mobile phone without visiting to the farm.

